

# LED Legacy™ (CRU & CRUS) Canopy Fixtures



**Crossover**  
LED LIGHTING TECHNOLOGY

## Marketing Positioning Statement

Inspired by LSI's Scottsdale®, the LED Legacy Series' fixtures are the new standard in petroleum canopy lighting. Offering outstanding performance, quick installation, long lasting consistent lighting, and tremendous energy and maintenance savings; the Legacy is the best lighting value in the marketplace for both retrofitting and new construction. These fixtures provide the same lighting brilliance and aesthetics you enjoyed with the Scottsdale along with the most progressive LED lighting technology available.

## Leading Specification Features

- SmartTec™ Control Technology – “Industry First”
- Low Total Cost of Ownership – Quick Return on Investment
- Class 1, Div 2 - Hazardous Location
- Unparalleled Speed & Ease of Installation
- Outstanding Uniformity & Visual Comfort
- Selection of Light Output Options
- Exceptional Design in an LED Canopy Fixture
- Widest Range of Retrofit Installation Options in the Industry

## Control Technology – Industry First

### Thermal Management

LSI proprietary SmartTec heat dissipation system

Finless heat sink design to more effectively dissipate heat and eliminate areas for dirt and grime to gather

## Low Total Cost of Ownership – Quick Payback

### Annual Energy & Maintenance Savings

\$2,423 savings for (16) CRUS LW LED fixtures replacing (16) 320W MH

\$2,241 savings for (16) CRUS SS LED fixtures replacing (16) 320W MH

\$2,556 savings for (16) CRU HO LED fixtures replacing (16) 400W MH

\$2,255 savings for (16) CRU VHO LED fixtures replacing (16) 400W MH

### Payback Analysis

ROI of 1.5 years for LW LED

ROI of 1.7 years for SS LED

ROI of 2.0 years for HO LED

ROI of 2.3 years for VHO LED

Based upon 12 hour daily operation at \$.10kWh

## Class 1, Div 2 - Hazardous Location

### T5 Temperature Classification

Gas Groups A, B, C and D (see data sheet for details)

## Unparalleled Speed & Ease of Installation

### Simplified Installation

1-person installation minimizes installation costs

Installs in less than half the time compared to other fixture designs

Quick-connect wiring process ensures simple and correct wiring connections

### Mounting

Designed to retrofit through existing Scottsdale (4") hole as well as openings for Encore<sup>®</sup> and Encore Top Access (see additional installation options in final section of this brochure)

No need for additional cutting, drilling or caulking of canopy deck

Primarily stainless steel mounting hardware for robustness and corrosion resistance

Height and width of driver box consistent with height and width of the Scottsdale ballast box, meaning no need to relocate or modify existing conduits

Also available for surface (SM) and double-deck (DDM) mounting

## Outstanding Uniformity & Visual Comfort

### Optics

Sealed tempered glass lens, with mid-power, high-brightness, high-efficiency LED chips  
Optical unit is safe from contaminants, ensuring long-term light output is not compromised  
Permanently sealed with robotically applied polyurethane  
5 times more impact resistant than standard glass  
Flat lens eliminates areas for dirt and grime to gather  
Optical unit is water resistant, sealed to an IP67 rating  
Optional dropped glass lens available - consult factory

### Lumen Output

Range of lumen outputs available by varying the # of LEDs utilized, drive currents as well as glass lens  
Provides a choice of overall lumen outputs for the customer's specific requirements

LIGHT OUTPUT - CRU & CRUS (Flat Glass)				
Cool White		Lumens	Watts	LPW
CRUS	LW - Low Watt	10,871	88	124
	SS - Super Saver	13,554	114	119
CRU	HO - High Output	19,630	150	131
	VHO - Very High Output	23,523	196	120

Consult data sheets for dropped lens data.

## Selection of Light Output Options

### Distribution Systems

Standard Canopy (SC) distribution  
Scottsdale drop lens (SCDL) distribution provides sparkle from a distance  
Provides superior distribution pattern for typical layouts  
Application department staff available to assist in determining the best layout for distribution pattern provided

### Four Energy Choices

LW array for lowest desired energy usage (88 watts)  
SS array for low desired energy usage (114 watts)  
HO array for greater lighting output (150 watts) - with Bi-level Switching (2L)  
VHO array for maximum lighting output (196 watts)

### Color Rendering Index

CRI of 70 facilitates recognition of specific colors  
Meets industry standards

### Color Temperature

Cool White – 5300k  
Provides a cooler, crisper color temperature

### Temperature Range

-40° to +50°C (-40°F to 122°F)  
Suitable for use in a full range of ambient temperatures  
Life expectation remains constant through the rated range

<b>Drive Currents</b>	Low Wattage (LW), Super Saver (SS), High Output (HO) or Very High Output (VHO)
<b>Input Voltage</b>	120V thru 277V are standard, 347V also available - consult factory
<b>Photometrics</b>	Tested using guidelines established in IES LM-79 for absolute photometry BUG uplight value of 0, no uplight

## Exceptional Design in an LED Canopy Fixture

<b>Attractive Low-Profile Design</b>	<p>Sleek, unobtrusive contemporary design to complement surroundings</p> <p>Makes a first impression as well as a lasting impression on the customer</p> <p>Sleeker look than traditional canopy fixtures</p> <p>Overall RoHS/WEEE compliant construction</p>
<b>American Made</b>	<p>All products designed and manufactured in the U. S.</p> <p>Luminaire is comprised of 80% or greater recyclable materials</p>
<b>Housing</b>	Vandal resistant die-cast aluminum construction easily withstands extreme temperature changes
<b>Driver Housing</b>	<p>Die-cast or fabricated, driver/electrical enclosure is elevated above canopy deck to help prevent water entry and to provide easy “knock-out” connection of primary wiring</p> <p>LSI driver components are fully encased in potting for IP65 moisture resistance</p>
<b>Maintenance-Free</b>	The CRU and CRUS are virtually maintenance-free
<b>Gasketing</b>	<p>Optical unit permanently sealed with robotically applied polyurethane</p> <p>Ensures overall uniform compression of polyurethane to seal housing and lens frame subassemblies</p> <p>5” diameter one-piece molded silicone gasket provides additional barrier to water intrusion between optical assembly and driver housing</p>
<b>Finish/Colors</b>	<p>LSI’s DuraGrip® polyester powder coat process resists corrosion and is scratch and ding resistant</p> <p>Withstands extreme weather changes without cracking or peeling</p> <p>Excellent durability and resistance to ultraviolet rays</p>

**Long-Life** LEDs evaluated In-Situ to LM-80 for 60,000 to 100,000 hours of expected life  
Up to 5X the life of HID  
Once installed, CRU and CRUS are virtually maintenance free

**Protection** Optical unit assembly rated for wet location (per UL1598)  
IP65 on LSI Drivers (Protected against limited ingress, protected against sprays from all directions)  
Optical unit 3<sup>rd</sup> party certifications for IP67

**Surge Protector** Meets IEEE C62.41.2-2002, Scenario 1, Location Category C  
Prevents damage to fixture due to unexpected “surge” or “swell” in AC Line Voltage  
Thermally protected transient over voltage circuit

**Pressure Stabilizing Vent/Breather** Pressure stabilizing vent breather to prevent seal fatigue

**Warranty** Limited 5-year warranty

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## Widest Range of Retrofit Installation Options in the Industry

**LED Ambient Canopy Light (CRU/CRUS)** Installs in a 12” or 16” deck pan.  
Designed to retrofit through existing Scottsdale (4”) hole as well as openings for Encore and Encore Top Access

**LED Ambient Universal Superkit 2X2 (CRUK UNV/CRUSK UNV)** Replaces most existing 2X2 canopy fixtures without having to know the dimensions of the existing fixture  
Pre-assembled unit and door mounts to existing fixture housing seamlessly and effortlessly

**LED Ambient Recessed Superkit (CRUK RECU) (CRUSK RECU)** Replaces most existing recessed canopy fixtures without having to know the dimensions of the existing fixture  
Tether holds pre-assembled optical unit and mounting panel during wiring for one-man installation



# Multiple Applications... Multiple Solutions

## New Construction Single Deck

Consult Factory for  
Hazardous Location



Legacy - CRU SC



CRUS SC



CRUS SCDL

## Retro-fit Single Deck



CRUK UNV SC



CRUSK UNV SC



CRUSK UNV SCDL



CRUK RECU SC



CRUSK RECU SC



CRUSK RECU SCDL

## New Construction Double Deck



CRU DDM SC



CRUS DDM SC



CRUS DDM SCDL

## Surface Mount



CRU SM SC



CRUS SM SC



CRUS SM SCDL